

Automation Product

Ideas for Improvement of Terminal Automation Capabilities

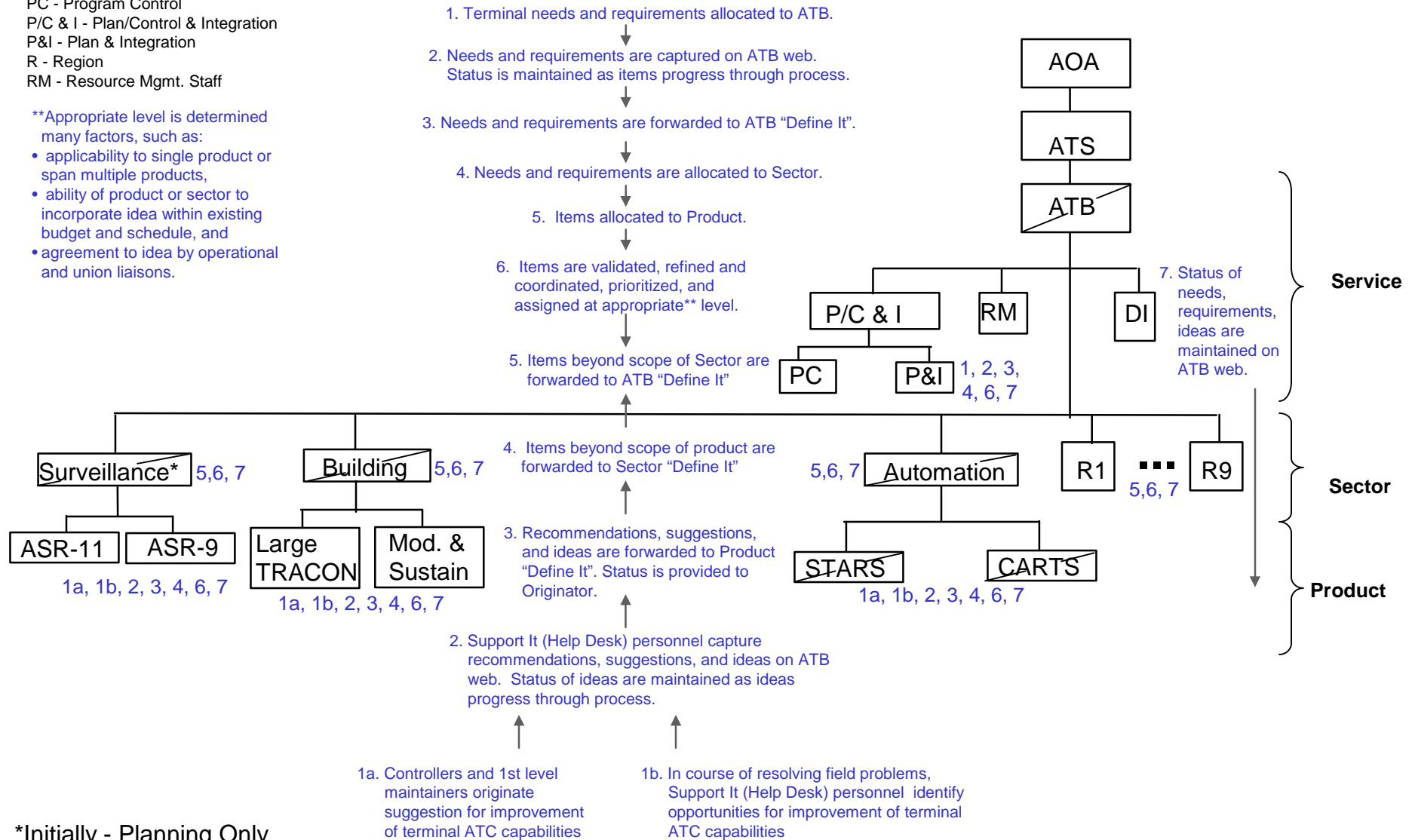
Bottoms-Up and Top-Down

DRAFT

DI - Deployment Support
 PC - Program Control
 P/C & I - Plan/Control & Integration
 P&I - Plan & Integration
 R - Region
 RM - Resource Mgmt. Staff

**Appropriate level is determined many factors, such as:

- applicability to single product or span multiple products,
- ability of product or sector to incorporate idea within existing budget and schedule, and
- agreement to idea by operational and union liaisons.



*Initially - Planning Only

1/19/01

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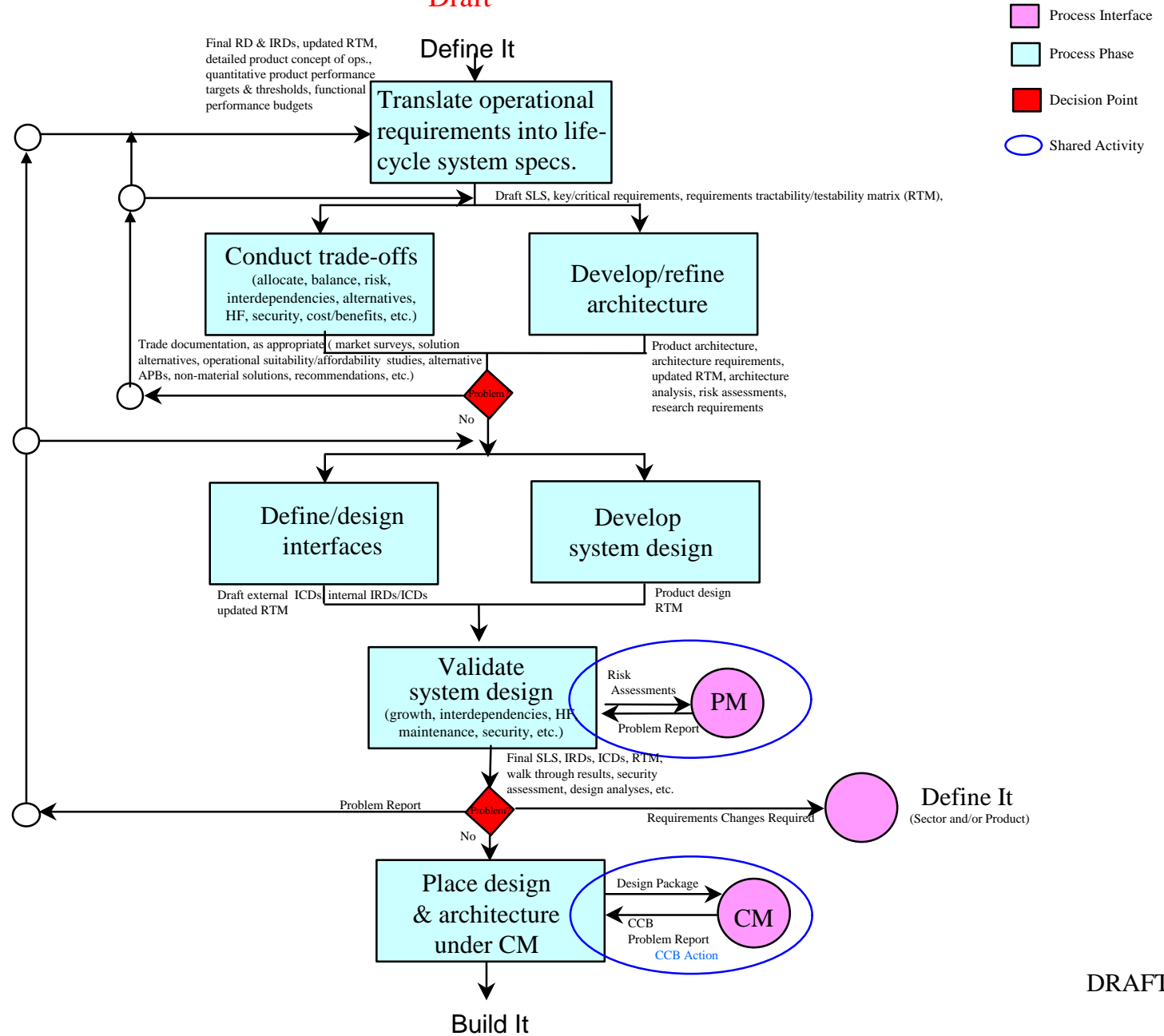
ATB -Design It - Automation Product

DRAFT

<u>Previous Process:</u> - Define it	<u>Purpose/Definition:</u> To translate automation product requirements into validated, approved design	<u>Next Process:</u> - Build it
<u>Performing Agent(s):</u> • Product team w/appropriate AT, AF, and union participation	<u>Owner:</u> ATB Automation Product Lead	<u>Customer(s):</u> • Product “build it”
<u>Input(s):</u> Internal to ATB • Final RD & IRDs • Updated RTM • Detailed product concept of ops. • Quantitative product performance targets & thresholds • Functional performance budgets	<u>Sub-Processes:</u> 1 Translate operational requirements into life-cycle system specification 2 Conduct trade-offs 3 Develop/refine architecture 4 Define/design interfaces 5 Develop system design 6 Validate system design 7 Place design under CM	<u>Output(s):</u> Internal to ATB • Final RD and IRDs • Product requirements • Risk assessment • Updated RTM • Acquisition strategy • Specifications • Design documents
		<u>Reviews, Audits & Controls:</u> • Peer review, QA, product management
<u>Entry Criteria:</u> • Completion of product “define it”	<u>Training/Handbooks/Policy:</u> AMS, architecture, design, security, HF, investment analysis and other specialty domain training	<u>Exit Criteria:</u> • Completed and validated design

ATB - Design It - Automation Product

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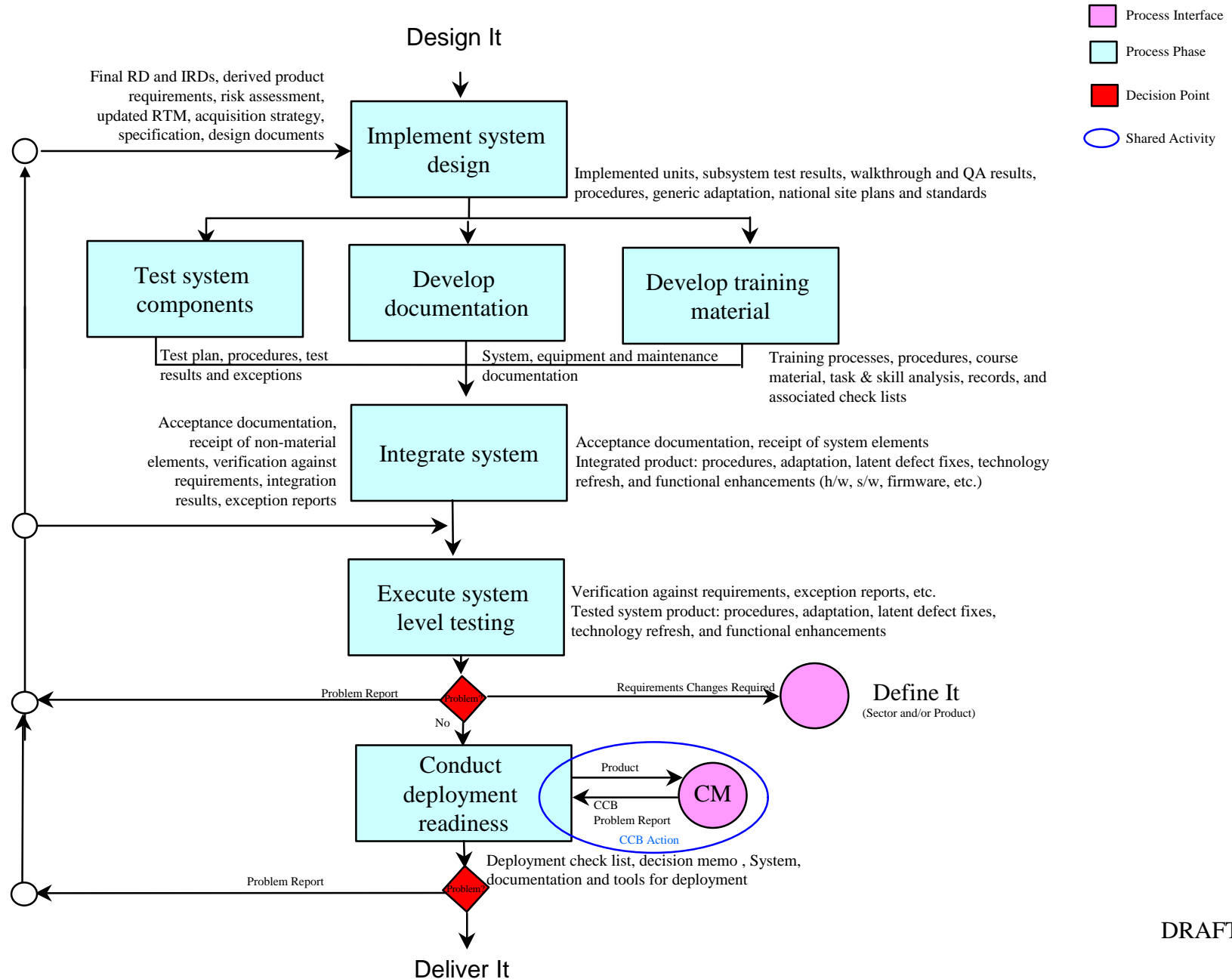


ATB -Build It - Automation Product

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<u>Previous Process:</u> - Design it	<u>Purpose/Definition:</u> To build/develop/acquire/test each key automation deliverable within the ATB	<u>Next Process:</u> - Deliver it
<u>Performing Agent(s):</u> • Product team w/appropriate AT, AF, and union participation	<u>Owner:</u> ATB Automation Product Lead <u>Sub-Processes:</u> <ol style="list-style-type: none"> 1. Implement system design 2. Test system components 3. Develop documentation 4. Develop training material 5. Integrate system 6. Execute system level testing 7. Conduct deployment readiness 	<u>Customer(s):</u> • Product “deliver it”
<u>Input(s):</u> Internal to ATB <ul style="list-style-type: none"> • Final RD and IRDs • Product requirements • Risk assessment • Updated RTM • Acquisition strategy • Specifications • Design documents 		<u>Output(s):</u> Internal to ATB <ul style="list-style-type: none"> • Product and product documentation • Training material • Deployment tools, and documentation • National site plans and standards • Existing site adaptation, configuration, etc.
		<u>Reviews, Audits & Controls:</u> <ul style="list-style-type: none"> • Peer review, QA, product mgmt., CM
<u>Entry Criteria:</u> • Completion of product “design it”	<u>Training/Handbooks/Policy:</u> AMS, FAST, acquisition, development, and test domain training	<u>Exit Criteria:</u> • Completed deployment readiness review

ATB - Build It - Automation Product

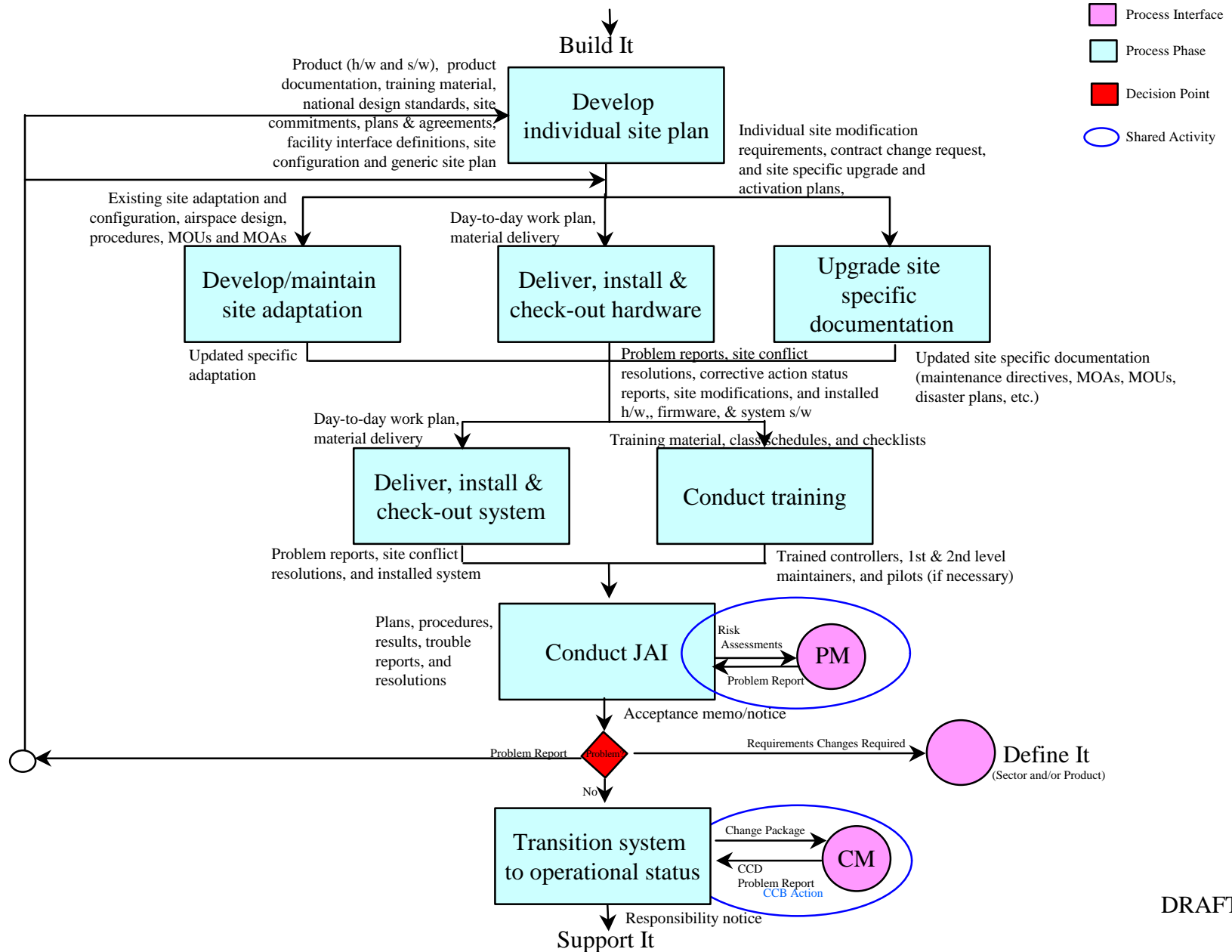


ATB -Deliver It - Automation Product

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<u>Previous Process:</u> - Build it	<u>Purpose/Definition:</u> To deliver/deploy Terminal Business Service Key Deliverables	<u>Next Process:</u> - Support it (2nd Level)
<u>Performing Agent(s):</u> • Regional element of ATB w/product team and appropriate AT, AF, and union participation	<u>Owner:</u> ATB Automation Product Lead	<u>Customer(s):</u> • Product “support it (2nd level)” • Controllers • 1st level maintainers
<u>Input(s):</u> Internal to ATB • Product and product documentation • Training material • Deployment tools, and documentation • National site plans and standards • Existing site adaptation, configuration, airspace design, procedures, MOUs, MOAs	<u>Sub-Processes:</u> 1. Develop individual site plan 2. Deliver, install & check-out hardware 3. Develop/maintain site adaptation 4. Deliver, install & check-out system 5. Conduct training 6. Upgrade site specific documentation 7. Conduct JAI 8. Transition system to operational status	<u>Output(s):</u> Internal to ATB • Deployed product, product documentation, and training material External to ATB • Integrated capability based on delivery of necessary sector products
<u>Entry Criteria:</u> • Completion of product “build it”	<u>Training/Handbooks/Policy:</u> AMS, deployment domain training, product training	<u>Reviews, Audits & Controls:</u> • Peer review, QA, FM, Risk Management, Product Management, CAI and JAI
		<u>Exit Criteria:</u> • Successful operation of capability

ATB - Deliver It - Automation Product



ATB -Support It (2nd Level) - Automation Product

<u>Previous Process:</u> - Deliver it	<u>Purpose/Definition:</u> To provide ongoing support to first level technicians	<u>Next Process:</u> No follow on process
<u>Performing Agent(s):</u> <ul style="list-style-type: none"> Product team w/appropriate AT, AF, and union participation 	<u>Owner:</u> ATB Automation Product Lead <u>Sub-Processes:</u> <ol style="list-style-type: none"> 1. Collect & document problem information 2. Provide 24/7 phone or on site assistance, as necessary 3. Determine cause of problem 4. Provide problem fix 5. Identify development needs 6. Capture problems for further analysis 7. Provide feedback to problem/recommendation originator 	<u>Customer(s):</u> <ul style="list-style-type: none"> Controllers 1st level maintainers
<u>Input(s):</u> Internal to ATB <ul style="list-style-type: none"> Deployed product, product documentation, and training material 		<u>Output(s):</u> Internal to ATB <ul style="list-style-type: none"> Identified, verified & validated problem, cause & fix Recommendations, suggestions & ideas for improvement of terminal ATC capabilities External to ATB <ul style="list-style-type: none"> Automation product (hardware & software) 24x7 support
		<u>Reviews, Audits & Controls:</u> Peer review, QA, Risk Management
<u>Entry Criteria:</u> <ul style="list-style-type: none"> Operational use of product 	<u>Training/Handbooks/Policy:</u> AMS, support domain training, product training	<u>Exit Criteria:</u> <ul style="list-style-type: none"> Replacement of product

ATB - Support It (2nd Level) - Automation Product

Provide 24/7 phone or on site assistance, as necessary

